General Specifications

F3NX01-2N
NX Interface Module

FA-M3

GS 34M06H29-03E

■ General

The NX Interface Module enables connection to a NeXUS Autonomous Distribution[1] system.

By supporting the Autonomous Distribution Protocol, it enables information interchange between FA-M3 systems and connections to PC, FA computers and other external devices that support the Autonomous Distribution protocol.

- Multicast Communications
  In multicast communications, a node transmits data to its associated field via Ethernet[2]. Other nodes within the same data field receive this data autonomously. Identification of and synchronization between sender and receiver is not required.
- Alive Signal Transmission
  Each node periodically transmits alive signals to its associated field. By monitoring transmitted alive signals, failure and recovery of the network and individual network nodes can be detected. Alive signals may be accompanied by error information.

[1]: "Autonomous Distribution" is a registered trademark of Hitachi Ltd.
[2]: "Ethernet" is a registered trademark of XEROX Corporation.

■ Features

Scope of Support for Autonomous Distribution Interface (Category A)

Primary Functions			Secondary Functions		
Class	Functions		Class	Functions	
A-Base-1	Multicast communication	✓	A-Opt-1-a	Redundant LAN control multicast communication	×
A-Base-2	Alive signal transmission	✓	A-Opt-2-a	Fault information transmission	✓
A-Opt-3	One-to-one communication (Max. 16KB)	×	—	—	—
A-Opt-4	Configuration over a network	×	—	—	—

■ Specifications

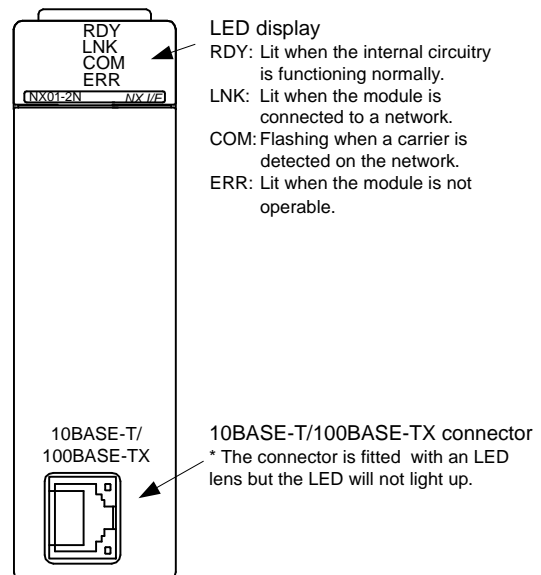| Item		Specification	
		100BASE-TX	10BASE-T
Transmission	Access control	CSMA/CD	
	Transmission rate	100 Mbps	10 Mbps
	Transmission method	Baseband	
	Maximum segment length	100m [1]	
	Largest connection configuration	2 cascade segments max.	4 cascade segments max.
Protocol		UDP/IP, ICMP, ARP	
Number of installed modules		2 max. when used with F3SP05, F3SP08, F3SP20, F3SP21 6 max. when used with F3SP22, F3SP25, F3SP28, F3SP35, F3SP38, F3SP53, F3SP58, F3SP59, F3SP66, F3SP67, F3SP71, F3SP76, F3BP20, F3BP30 * Total number including other modules with similar functions (personal computer link modules, FL-net interface modules, etc.)	
Current consumption		330 mA max.	
External Dimensions		28.9 (W) x 100 (H) x 83.2 (D) mm [2]	
Weight		100g	
Environmental Specifications	Surrounding air temperature range	Operating: 0 to 55°C	
		Storage: -20 to 75°C	
	Surrounding humidity range	Operating: 10 to 90%RH (non-condensing)	
		Storage: 10 to 90%RH (non-condensing)	
	Surrounding atmosphere	Must be free of corrosive gases, flammable gases or heavy dust.	

[1]: Maximum distance between the module and a hub.
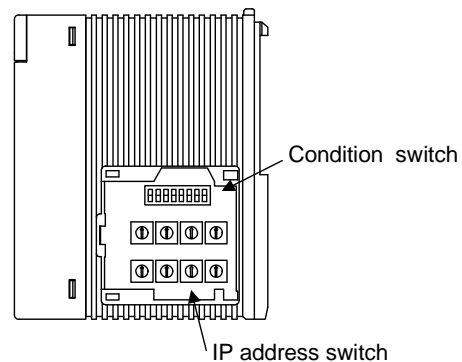[2]: Excluding protrusions (For details, see "External Dimensions.")

■ Components and Functions

● Front view

LED display
RDY: Lit when the internal circuitry is functioning normally.
LNK: Lit when the module is connected to a network.
COM: Flashing when a carrier is detected on the network.
ERR: Lit when the module is not operable.

RDY
LNK
COM
ERR
NX01-2N   NX I/F

10BASE-T/ 100BASE-TX

10BASE-T/100BASE-TX connector
* The connector is fitted with an LED lens but the LED will not light up.

● Right side view

Condition switch

IP address switch

* This is the right side view with the panel cover removed.

■ Operating Environment

This module is compatible with all CPU module types.

■ Model and Suffix Codes

Model	Suffix Code	Style Code	Option Code	Description
F3NX01	-2N	—	—	10Mbps/100Mbps 10BASE-T/100BASE-TX

■ External Dimensions

Unit:mm

83.2

28.9

2

RDY
LNK
COM
ERR
NX01-2N   NX I/F

100

10BASE-T/
100BASE-TX